



International Telecommunication Union

ITU-R activities related to TDR

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ITU-R activities related to TDR

- WRC-2000 decision
- Involvement of ITU-R services
- Overview of ITU-R studies
- CPM-02 preparation
- Status of studies and activities
- Future work

Resolution 644-1 (WRC-2000)

resolves

- to invite the ITU Radiocommunication Sector to continue to study, as a matter of urgency, those aspects of radiocommunications that are relevant to disaster mitigation and relief operations, such as decentralized means of communications that are appropriate and generally available, including amateur radio facilities and mobile and portable satellite terminals

WRC-2000 Decision

WRC-03 agenda item 1.3:

“to consider identification of globally/regionally harmonized bands to the extent practicable, for the implementation of future advanced solutions to meet the needs of public protection agencies, including those dealing with emergency situations and disaster relief, and to make regulatory provisions, as necessary, taking into account Resolution 645 (WRC-2000);”

Important aspects of agenda item

- Identification of **harmonized bands** on a global or regional basis envisaged
- Focus is on **future advanced solutions**; recognizes difficulties with ad hoc approach used to date
- **Public protection and disaster relief**; day-to-day operations as well as emergencies
- **Regulatory provisions** may be required

Resolution 645 (WRC-2000)

Considers and recognizes:

- Need for high data rates, video and multimedia applications in future
- Interoperability and network interworking
- Developing country needs for low cost solutions and equipment choice
- Effectiveness of disaster relief assistance
- Potential benefits from spectrum harmonization

Involvement of radiocommunication services

- Predominantly **mobile services** operated in the main by government public protection agencies but also by commercial service providers
- **Fixed services** include/will include:
 - Point-to-point applications
 - Fixed wireless access type applications
- **Amateur services** have a long history of assisting with radiocommunications during emergencies and disaster events

Overview of ITU-R studies

- **WRC-2000** adopted agenda items for WRC-03 and called for ITU-R studies
- SG reports on studies to date formed the **Draft CPM Report**
- Report on technical bases for WRC-03 decisions has been completed by **CPM**
- **WRC-03** will consider and resolve agenda items as it sees appropriate
- **Future work** in ITU-R will be dependent in part upon WRC-03 decisions

ITU-R studies

- WP 8A of SG 8 was assigned lead responsibility for PPDR studies
- Other contributing and interested groups included:
 - SG 1
 - SG 8 (WPs 8B, 8D and 8F)
 - SG 9 (WPs 9B and 9D)

Terminology

Public protection radiocommunication

Radiocommunication used by responsible agencies and organizations dealing with maintenance of law and order, protection of life and property, and emergency situations

Terminology (cont)

Disaster relief radiocommunications

Radiocommunication used by agencies and organizations dealing with serious disruption of the functioning of society, posing a significant, widespread threat to human life, health, property or the environment, whether caused by accident, nature or human activity, and whether developing suddenly or as a result of unexpected complex, long term processes

Status of ITU-R studies

- The CPM Report addresses:
 - Results of survey on PPDR activities
 - Future advanced solutions (narrowband, wideband and broadband)
 - Technical and operational issues
 - Spectrum requirements and candidate bands
 - Methods to satisfy the agenda item
 - Regulatory provisions

Status of ITU-R studies (cont)

*Draft New Recommendation ITU-R
M.[DR.CIRC]*

*“Global cross-border circulation of
radiocommunication equipment in emergency
and disaster relief situations”*

- SG 8 has adopted this DNR developed in response to Resolution 645
- The DNR will be circulated for approval by Member States. Approval is expected in May 2003

Status of ITU-R studies (cont)

Report ITU-R M.[PPDR]

“Radiocommunication objectives and requirements for public protection and disaster relief (PPDR)”

- SG 8 has approved this Report which defines objectives and requirements for the implementation of future advanced PPDR solutions
- Focuses on operational needs around 2010

Status of ITU-R studies (cont)

Recommendation ITU-R M.1042-1

“Disaster communications in the amateur and amateur-satellite services”

- encourages the development of robust, flexible and independent amateur service and amateur-satellite service networks capable of providing communications during disasters and relief operations
- Draft revision to be approved in May 2003

Future activities

- Dependent upon decisions reached by WRC-03 on agenda item 1.3
- Studies required on implementation technologies for future advanced solutions
- Revise and update the Report on PPDR systems and characteristics in line with operational and technology developments

Summary

TDR activities in the ITU-R:

- WRC-2000 challenge accepted and met
- First stage of technical studies completed
- CPM Report provides methods to satisfy agenda item 1.3
- Further studies will be dependent upon WRC-03 decisions on PPDR
- Implementation studies will be required

Thank you!